Kentucky Department of Education
Science Adoption 2008-2014

Provided by the Publisher				Provided by the Publisher
ISBN - **0022871152**		Publisher - **Macmillan/McGraw-Hill**		
Kentucky Kindergarten Learning System				
Type - P2	Author - Hackett, and others			
Copyright - 2009	Edition - First	Readability - NA		
Course - Science		Grade(s) - K		
Teacher Edition ISBN if applicable			002287139X	

Overall Recommendation: ☒ **Recommended as Basal**

Overall Strengths, Weaknesses, Comments:

This basal provides excellent coverage of the Kentucky Sciecne Standards. It includes all the essential componenets needed for successful implementation except for the actual activity supplies. It has a strong inquiry emphasis with numerous opportunities for critical thinking, reasoning, and application. The teachers guide is user friendly and inlcudes copies of flip book pages surrouded by teaching strategies and connections. There are excellent resources provided to diversify instruction.

CRITERIA
This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations	☒ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

☐ Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 7 Big Ideas of science to the following extent:

a)	Structure and Transformation of Matter	☒ Strong	☐ Moderate	☐ Little	☐ N/A
b)	Motion and Forces	☒ Strong	☐ Moderate	☐ Little	☐ N/A
c)	The Earth and the Universe	☒ Strong	☐ Moderate	☐ Little	☐ N/A
d)	Unity and Diversity	☒ Strong	☐ Moderate	☐ Little	☐ N/A
e)	Biological Change	☐ Strong	☒ Moderate	☐ Little	☐ N/A
f)	Energy Transformation	☐ Strong	☒ Moderate	☐ Little	☐ N/A
g)	Interdependence	☐ Strong	☒ Moderate	☐ Little	☐ N/A

2) Addresses content-specific enduring understandings from the related Program of Studies standards. ☐ Strong ☒ Moderate ☐ Little ☐ N/A

3) **Addresses content-specific skills and concepts from the related Program of Studies standards.** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

4) **Content addressed is current, relevant and non-trivial** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

5) **Provides opportunities for critical thinking/reasoning** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

6) **Strengths, Weaknesses, Comments:**
- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

This basal is aligned with the Kentucky standards. All topics that can be taught successfully at kindergarten are addressed. It is essential that the teacher use the centers and inquiry activities to enable maximum student learning.

B. Functionality & Suitability	☒ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

1) **Suitability** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) **Content quality** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community

3) **Connections to Literacy** ☒ Strong ☐ Moderate ☐ Little
Note: may apply to either student or teacher editions

- Employs a variety of reading levels and is grade/level appropriate
- Contains pre, during, post reading activities
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- Engaging text- does the text facilitate learning?
- Does understanding the text require having performed the imbedded activities?

4) **Connections to Technology** ☐ Strong ☒ Moderate ☐ Little

- Integrates technology and reflects the impact of technological advances

- Uses technology in the collection and/or manipulation of authentic data

5) Support for Diverse Learners ☐ Strong ☒ Moderate ☐ Little

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
  Note: may apply only to teacher edition

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The content quality of this basal is excellent and accurate. The connections to literacy are very strong. Leveled readers in big book and small book format are included. The textbook is a flipbook. The teachers guide has connections across the curriculum which if impledmented will increase the depth of science understanding. The A to Z activity book provides more inquiry and hands-on applications. The teacher guide references several web resources, but some of them are not accessable. ESL resources are provided in the teachers guide and science resource book.

C. Supports Inquiry and Skill Development	☒ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence

1) Promotes Inquiry, research and Application of Learning ☒ Strong ☐ Moderate ☐ Little

- Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development ☒ Strong ☐ Moderate ☐ Little

- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

If all of the essential components are implemented inquiry and science process skills will be developed. Because the connections across the curriculum are so well developed, implementing this basal would enhance learning in all content areas. Supplies will be needed to carry out the investigations, but most of them are available locally. This basal emphasizes science thinking skills and reasoning.

D. Supports Best Practices of Teaching and Learning	☒ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence

1) Engages Students ☒ Strong ☐ Moderate ☐ Little

- Includes content geared to the needs, interests, and abilities of students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction ☐ Strong ☒ Moderate ☐ Little

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

This basal when implemented fully engages all the learning styles. It is well organized and teacher friendly. The activities are congruent to the concepts. There are some assessment opportunities referenced throuhout the teachers guide, including formative, summative and portfolio options.

E. Has an Organization/ Format that Supports Learning and Teaching	☒ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence

1) Organizational Quality ☒ Strong ☐ Moderate ☐ Little

- Print and/or electronic materials present minimal barriers to learners
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) ☒ Strong ☐ Moderate ☐ Little

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

This basal is organized well and has all the essential components included. The essential items provided include a flip chart, leveled readers (small and big books), A to Z Activity Book, Activity Book, three floor puzzles, a bulletin board kit, Scince on the go cards, photo cards, vocabulary cards, songs CD, and a Sciecne Resource Book. This set of materials provides all the essentail parts except for the activity supplies.

F. Has available Ancillary/ Gratis Materials *Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*	☐ **Strong Evidence** ☒ **Moderate Evidence** ☐ **Little or No Evidence**

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The only options for ancilary materials are "The Master Teacher DVD" and a set of deluxe readers. These are not needed for successful implementation of this basal.